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47. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Bam*HI site at approximately 8150 to the *Bgl*II site at approximately 8750, wherein said numbering scheme is based upon the restriction map of LAV isolate λ J19.

48. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*II site at approximately 6500, wherein said numbering scheme is based upon the restriction map of LAV isolate λ J19.

49. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*II site at approximately 8750, wherein said numbering scheme is based upon the restriction map of LAV isolate λ J19.

50. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*II site at approximately 9150, wherein said numbering scheme is based upon the restriction map of LAV isolate λ J19.

51. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Kpn*I site at approximately 3500 to the *Kpn*I site at approximately 6100, wherein said numbering scheme is based upon the restriction map of LAV isolate λ J19.

52. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Kpn*I site at approximately 3900 to the *Kpn*I site at approximately 6100, wherein said numbering scheme is based upon the restriction map of LAV isolate λ J19.

~~53. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein said fragment can hybridize to a λ J19 restriction fragment generated by the *Bam*HI site at~~

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approximately 8150 to the *Bgl*III site at approximately 9150 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

54. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein said fragment can hybridize to a λ J19 restriction fragment generated by the *Bam*HI site at approximately 8150 to the *Bgl*III site at approximately 8750 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

55. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein said fragment can hybridize to a λ J19 restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*III site at approximately 6500 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

56. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein said fragment can hybridize to a λ J19 restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*III site at approximately 8750 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

57. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein said fragment can hybridize to a λ J19 restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*III site at approximately 9150 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

58. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein said fragment can hybridize to a λ J19 restriction fragment generated by the *Kpn*I site at approximately

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